New methods of investigation of the processes of disruption of rocks by mechanical methods.

cutting of rocks and Chumak, All-Union Research Institute for the Organisation and Mechanisation of Mine Construction VNIIOMShS (Vsesoyuznyy Nauchno-Issledovatel'skiy Institut Organizatsii i Mekhanizatsii Shakhtnogo Stroitel'stva VNIIOMShS), described a test stand for investigating vibro-impact drilling. In the resolutions it was mentioned that, in spite of known achievements in the field of developing experimental methods and techniques for studying processes of disruption of rocks, utilisation of the latest achievements in physics is lagging. For instance, radioactive isotopes, semi-conducting instruments etc. are not being used on an adequate scale. It was also pointed out that most institutes were forced to design and build strain gauge apparatus and a number of metering instruments on a very small scale and evidently it will be necessary to organise centralised manufacture of such apparatus.

Card 5/5

(Note: This is an almost complete translation).

AVAILABLE: Library of Congress.

IVANCHENKO, Ye.Ya.; VOLKOV, A.A.

Induction, torsion-type dynamometer for the investigation of rock boring and the performance of electric drills. Sbor.mauch.trud. KHGI 5:15-25 '58. (MIRA 14:4) (Rock drills) (Dynamometer)

VOLKOV, A.A., dotsent; MIKHAYLOV, V.A., dotsent

Design of an electrical network for regulating the liquid level. Izv. vys. ucheb. zav.; gor. zhur. no.5:165-172 '61.

(MIRA 16:7)

l. Khar'kovskiy gornyy institut. Rekomendovana kafedroy avtomatizatsii gornopromyshlennykh predpriyatiy. (Liquid level indicators)

(Ore dressing—Equipment and supplies)

VOLKOV, A.A., dotsent

Dynamics of the operation of a bit in a working face in rotary drilling. Izv. vys. ucheb. zav.; gor. zhur. 6 no.4:79-88 163. (MIRA 16:7)

1. Khar¹kovskiy institut gornogo mashinostroyeniya, aytomatiki i vychislitel noy tekhniki. Rekomendovana kafedroy avtomatizatsii proizvodstvennykh protsessov.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860520007-2" s/3054/63/000/000/0342/0353

ACCESSION NR: AT4008774

THE MEST PERSON HERBER AND

AUTHORS: Volkov, A. A. (Candidate of technical sciences)

TITLE: Digital computers used for controlling systems with optimal characteristics

SOURCE: Pribory\* promy\*shlennogo kontrolya i sredstva avtomatiki. Doklady\* i soobshcheniya. Kiev, 1963, 342-353

TOPIC TAGS: optimalizing control system, digital computer, self adjusting control system, sampling controller, programmed control, extremum seeking control system, logic circuit

ABSTRACT: Following an enumeration of the requirements that must be satisfied by a computer designed to control objects with optimal characteristics and with high and low inertia, the author describes an operations program and block diagrams for such computers, developed at the Khar'kovskiy institut gornogo mashinostroyeniya, avtomatiki

Card 1/4'L

ACCESSION NR: AT4008774

i vy\*chislitel'noy tekhniki (Khar'kov Institute of Mining Machine Building, Automation, and Computation Techniques). Block diagrams for the required logical elements and binary counters are also represented. "N. N. Maksyutenko and A. I. Logachev participated in the development and production of the apparatus." Orig. art. has: 4 figures and 16 formulas.

ASSOCIATION: Khar'kovskiy institut gornogo mashinostroyeniya, avtomatiki i vy\*chislitel'noy tekhniki (Khar'kov Institute of Mining. Machine Building, Automation, and Computation Techniques)

SUBMITTED: 00

DATE ACQ: 25Jan64

ENCL: 02

SUB CODE: CG

NO REF SOV: 003

THER: 000

Card 2/11/

SVIRIDENKO, S.Kh.; AKHMECHET, L.S.; VOLKOV, A.A.; MEYSTEL', A.M.;
MIZHEVSKIY, L.L.; POLYAKOV, L.M.; RASHKOVICH, M.P.;
SRIEHER, L.A.; KHVALOV, Yu.G.; SHPIGLER, L.A.; SHRAGO,
L.K.; ORLIKOV, M.L., inzh., retsenzent; SVECHNIKOV, L.V.,
inzh., retsenzent; MATSIYEVSKIY, A.G., inzh., red.

[Elements of the automation of machine tools] Elementy avtomatizatsii metallorezhushchikh stankov. Moskva, Mashgiz, 1964. 210 p. (MIRA 17:12)

DOROKHOV, Aleksandr Petrovich; KOROBKINA, Galina Stepanovna;
STARODUBTSEV, Viktor Aleksandrovich; TSARENKO, Vladimir
Timofeyevich; VOLKOV, A.A., retsenzent; OGORODNEYCHUK,
I.F., retsenzent; RUDENKO, V.S., retsenzent; TETEL BAUM,
Ya.I., retsenzent; FILONENKO, S.N., dots., otv. red.;
NESTERENKO, A.S., red.

[Principles of industrial electronics] Osnovy promyshlennoi elektroniki. [By] A.P.Dorokhov i dr. Khar'kov, Izd-vo Khar'kovskogo univ., 1964. 214 p. (MIRA 17:8)

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

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VOLKOV, A.A., kand. tekhn. nauk; YEFIMOV, A.N., inzh.; RYBNIKOV, E.N., inzh.

HENNEL REPORT OF THE PROPERTY AND RESIDENCE OF THE PROPERTY OF

Studying the correction of the dynamic properties of mine excavating machines by mathematical modeling. Izv. vys. ucheb. zav.; gor. zhur. 8 no.7:174-179 '65. (MIRA 18:9)

1. Khar'kovskiy institut gornogo mashinostroyeniya, avtomatiki i vychislitel'noy tekhniki. Eskomendovana kafedroy tekhnicheskoy kibernetiki.

and designation of the contraction of the contracti

VOLKOV, A.A., kand. tekhn. nauk; YEVDOKIMOV, A.G., inzh.

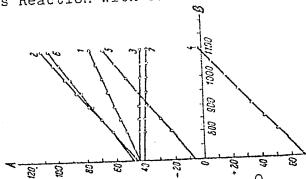
Mathematical description of steady air distribution processes in mine ventilation systems. Izv. vys. ucheb. zav.; gor. zhur. 8 no. 2136-143 (MIRA 18:5)

1. Khar'kovskiy institut gornogo mashinostroyeniya, avtomatiki i vychislitel'noy tekhniki.



75658 5.4300,5.4700 SOV/80-32-10-7/51 Ginstling, A. M., Volkov, A. D. **AUTHORS:** Investigation of the Thermochemical Decomposition of TITLE: Calcium Sulfate and of Its Reaction With Carbon Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 10, pp PERIODICAL: 2171-2177 (USSR) This is a study of the thermodynamics and kinetics of ABSTRACT: the above processes. The isobaric-isothermal Gibbs free energies AZ oplotted vs temperature in Fig. 1 were determined for reactions (1) to (7). (1) $CaSO_4 + 2C = CaS + 2CO_2$ (2) $CaSO_4 + 4C = CaS + 4CO$ ,  $CaSO_4 + 4CO = CaS + 4CO_2$ , (3) (4) $CaS + 3CaSO_4 = 4CaO + 4SO_2$ , (5) $3CaS + CaSO_4 = 4CaO + 2S_2$ (6)  $2CaS + SO_2 = 2CaO + 1.5S_2$ , (7)  $CaS + 2SO_2 = CaSO_1 + S_2$ . Card 1/6

Investigation of the Thermochemical Decomposition of Calcium Sulfate and of Its Reaction With Carbon



75658 SOV/80-32-10-7/51

Fig. 1. Change in the isobaric-isothermal Gibbs free energies of the muin reactions in the  $CaSO_4+C$  system with temperature. (A)  $\triangle Z_T^0$  (kcal/mol); (B) temperature (°C)

Comparison of  $\triangle Z_T^0$  for (5), (6), and (7) indicates the greatest probability of (6), but since (6) and (7) both require  $SO_2$ , (5) is possible in the absence or insufficiency of  $SO_2$ . At higher temperatures (4) is driven to the right, which favors (6). The kinetics of the reaction of  $CaSO_4$  with C were studied on the

Card 2/6

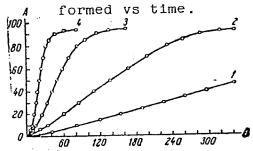
APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860520007-2"

SECURITION AND BOOKS INCOMES AND RESIDENCE OF THE SECURITIES.

Investigation of the Thermochemical Decomposition of Calcium Sulfate and of Its Reaction With Carbon

75658 507/80-32-10-7/51

basis of experimental composition data for the solid and gaseous reaction products. Reagents:  $\text{CaSO}_4$  prepared by heating analytical grade gypsum, and natural gypsum containing 0.2%  $\text{R}_2\text{O}_3$  and traces of MgO; sugar charcoal, all in powder form; molar  $\text{CaSO}_4/\text{C}$  ratio, 1/0.6. Experimental conditions: reagents heated in a stream of purified nitrogen. Figure 3 shows the amount of SO<sub>2</sub>



Card 3/6

Fig. 3. Kinetics of  $SO_2$  evolution on decomposition of analytically pure  $CaSO_4$ . (A)  $SO_2$  content (% of starting S); (B) time (min). Temperature (°C): (1) 950, (2) 1,000, (3) 1,050, (4) 1,100.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860520007-2"

Investigation of the Thermochemical Decomposition of Calcium Sulfate and of Its Reaction With Carbon

75658 867780-32-10-7751

Figures 4 and 5 indicate changes in the solid-product composition with time: the negligible  $SO_{2}$  formation and large  $CaSO_{4}$  consumption at the start are proof of the high rate of  $CaSO_{4}$  reduction to CaS.

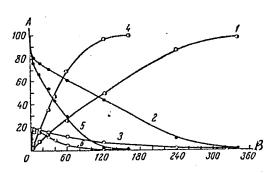


Fig. 4. Kinetics of the composition change of the solid product in the process of decomposition of analytically pure CaSO<sub>4</sub>. (A) Content calculated as CaSO<sub>4</sub> (%); (B) time (min): at 1,000°: (1) CaO, (2) CaSO<sub>4</sub>, (3) CaS; at 1,050°: (4) CaO, (5) CaSO<sub>4</sub>, (6) CaS.

Card 4/6

Investigation of the Thermochemical Decomposition of Calcium Sulfate and of Its Reaction With Carbon

75658 **SOV**/80-32-10-7/51

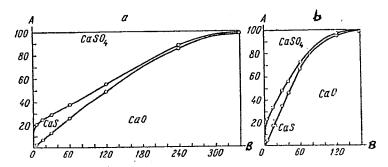


Fig. 5. Material balance diagram of the composition change of the solid product in the process of analytically pure  ${\rm CaSO}_4$  decomposition. (A) content calculated as  ${\rm CaSO}_4$  (%); (B) time (min); (a) at 1,000°, (b) at 1,050°.

Card 5/6

Investigation of the Thermochemical Decomposition of Calcium Sulfate and of Its Reaction With Carbon

75658 \$07780-32+10-7751

Calculations prove that the maximum amount of CaS<sub>2</sub> formed (curves 3 and 6 on Fig. 4) is insufficient to react according to (4) with the remaining CaSO<sub>4</sub>. whose reduction therefore continues. There are 3 tables; 5 figures; and 17 references, 12 Seviet, 3 Polish, 1 German, 1 U.S. The U.S. reference is: Rossini, F. D., Wagman, D. D., Evans, W. H., Levine, S., Ioffe, I., Selected Values of Chemical Thermody-

namic Properties, Nat. Bur. Stand. Circ. 500 (1952).

SUBMITTED:

December 8, 1958

Card 6/6

SHALASHOV, V.A.; FINKEL'SHTEYN, T.B., starshiy nauchnyy sotrudnik; VOLKOV, A.D.

Solf-lubricating rings of spinning machines made from metallic ceramics. Tekst. prom. 25 no.7:63-67 Jl '65. (MIRA 18:8)

1. Direktor Vsesojusnogo nauchno-issledovateliskogo instituta legkogo i tekstilinogo mashinostroyeniya, Moskva (for Shalashov).
2. Vsesoyuznyy nauchno-issledovateliskiy institut legkogo i tekstilinogo mashinostroyeniya, Moskva (for Finkelishteyn).
3. Nachalinik laboratorii tekhnologii mashinostroyeniya Vsesoyuznogo nauchno-issledovateliskogo instituta legkogo i tekstilinogo mashinostroyeniya, Moskva (for Volkov).

S/194/62/000/002/031/096 D230/D301

AUTHOR:

Volkov, A. D.

TITLE:

Polarity-selective relay distributor for remote-con-

trol and remote signalling

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 2, 1962, abstract 2-2-133shch (Ugol', 1961, no. 9,

28-30)

TEXT: Description of a simple relay distributor with polarity-selective element designed for the remote control of blowers for the main ventilation of mines. Remote and supervisory controls from the dispatch point can be achieved by means of a relay distributor using two pairs of conductors. The distributor consists in the main, of a relay type  $P\Pi T-ID$  (RPT-10) or MKY-42 (MKU-48) and selenium rectifiers mounted on two panels: the point-dispatch panel and the control panel. The connection between the panels is made by four conductors; or by a four-way cable. The distributor replaces a 20-way control cable. / Abstracter's note: Complete translation. 7

Card 1/1

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860520007-2"

# Relay type distributor with polar selection for remote control and long distance signaling systems. Ugol' 36 no.9:28-30 S '61. (MIRA 14:9) 1. Glavnyy inzhener Gorlovskogo spetsmontazhnogo upravleniya Ugleavtomatika. (Coal mining machinery) (Remote control)

## CIA-RDP86-00513R001860520007-2 "APPROVED FOR RELEASE: 08/09/2001

5.1190, 5.4300, 5.4700

77628 sov/80-33-2-3/52

AUTHORS:

Ginstling, A. M., Volkov, A. D.

TITLE:

Reaction of Calcium Sulfate With Carbon in the

Presence of Sodium Chloride

PERIODICAL:

Zhurnal prikladnov khimii, 1960, Vol 33, Nr 2,

pp 274-279 (USSR)

ABSTRACT:

This is the second article in a series concerning thermal decomposition of calcium sulfate. The article deals with the effect of sodium chloride addition on decomposition of calcium sulfate. Experiments were conducted at 1,000 and 1,0500 in a stream of nitrogen. The results are given in Table A. The reaction proceeds in 2 stages: (1) reduction of sulfate by carbon to yield sulfide; (2) reaction of the sulfide with sulfate. Inder the investigated conditions, the second stage is the slower of the two, and it limits the process rate.

card 1/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860520007-2"

Reaction of Calcium Sulfate With Carbon in the Presence of Sodium Chloride

77628 80V/80-33-2-3/52

It was found that NaCl has a retarding effect on the first stage, but at the given temperature the addition of 0.5-1% NaCl increases the process rate of the second (limiting) stage, which correspondingly increases the overall process rate. The effectiveness of the accelerating admixture decreases with the increase in process temperature. There are 6 figures; 1 table; and 12 references, 11 Soviet, 1 Czechoslovakian.

SUBMITTED:

July 11, 1959

Card 2/3

Reaction of Calcium Sulfate With Carbon in the Presence of Sodium Chloride

77628 \$0V/80-33-2/3/52

Table A. Effect of NaCl on kinetics of  $SO_2$  evolution during decomposition of  $CasO_{\frac{1}{2}}$  (c.p.) at 1,000 and 1,050 C (A) Yield of  $SO_2$  (% of stoichiometric); (B)  $CasO_{\frac{1}{2}}$  decomposition time (min, sec) for NaCl content in mixture. (B)

(A)	0%	0.5%	1°/0	2%	(f/o	0.5%	1%	2%
	1000°				1050°			
2.32 * 10.85 / 20.18 31.03 41.84 49.62 62.00 81.45 89.12 92.22 93.77 94.52 94.72 For	10, 49 33, 34 57, 15 83, 32 102, 45 129, 20 163, 32 235, 20 276, 22 300, 10 328, 00 340, 00 brevi	6, 25 20, 24 34, 00 52, 27 76, 00 95, 48 135, 20 225, 37 276, 24 300, 18 328, 25 340, 45	6, 00 19, 36 30, 45 43, 05 58, 43 68, 15 87, 57 121, 28 141, 22 160, 00 174, 12 178, 04 182, 00	5. 57 19, 57 33, 44 51, 32 70, 50 84, 56 112, 48 175, 34 216, 25 242, 05 252, 28 265, 52 280, 00 et of	4, 08 14, 12 22, 35 32, 10 40, 42 47, 50 58, 00 83, 12 106, 00 130, 45 160, 00	2, 45 9, 22 14, 15 19, 54 25, 00 28, 23 34, 40 55, 38 73, 43 90, 03 101, 00	2, 32 8, 15 12, 37 16, 56 20, 57 24, 00 29, 42 49, 32 66, 50 82, 56 100, 06	2, 37 8, 27 12, 52 17, 17 21, 52 30, 48 53, 58 79, 45 102, 20 130, 60

Card 3/3

5.2100

Ginstling, A M , Wolker. A AUTHORS:

Brief Communications. Reaction of Calcium Suctate With TITLE:

Carbon and Silica

Zhurnal prikladnov khimii. 1960. Vol 33, Nr 3. PERIODICAL:

pp 736-739 (USSR,

This is Communication III on the thermochemical ABSTRACT:

decomposition of calcium sulfate. The effect of calcium fluoride as an accelerator of the thermal decomposition of a mixture of anhydrite, ocal, and silica was investigated. It was established that the addition of 1% CaF to the above mixture increased

9-fold the amount of GaO fied up as sillostes in 90 min. V. P. Ivanove took part in the experiments.

which were conducted in the laboratory of the All-Motor Geological Institute (VSEGEL) There are 2 figures: 1 table; and 11 references 1 U.S. 1 Swiss, 1 Swedish.

1 Polish, 7 Soviet. The U.S. reference in F. Kewman

Card 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860520007-2"

Brief Communications. Peartics of Calcium Str Brief Str

VOLKOV, A. D.

Cand Tech Sci - (diss) "Study of the decompsotion of calcium sulfate in the presence of carbon with the purpose of production of sulfur dioxide." Leningrad, 1961. 15 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Order of Labor Red Banner Technology Inst imeni Lensovet); 180 copies; price not given; (KL, 7-61 sup, 233)

VOLKOV, A.D., kand.tekhn.nauk; DENISOV, A.P., kand.tekhn.nauk

Improve the quality of printed matter on safety engineering and labor protection. Zhel. dor. transp. 43 no. 1:94-95 Ja '61.

(MIRA 14:4)

(Safety education, Industrial)

GINSTLING, A.M.; VOLKOV, A.D.

Reactions involving the formation of elemental sulfur in reactions between calcium sulfate and carbon. Zhur. prikl. khim. 33 no.8:1700-(MIRA 13:9) 1704 Ag '60. (Sulfur) (Carbon) (Calcium sulfate)

# 

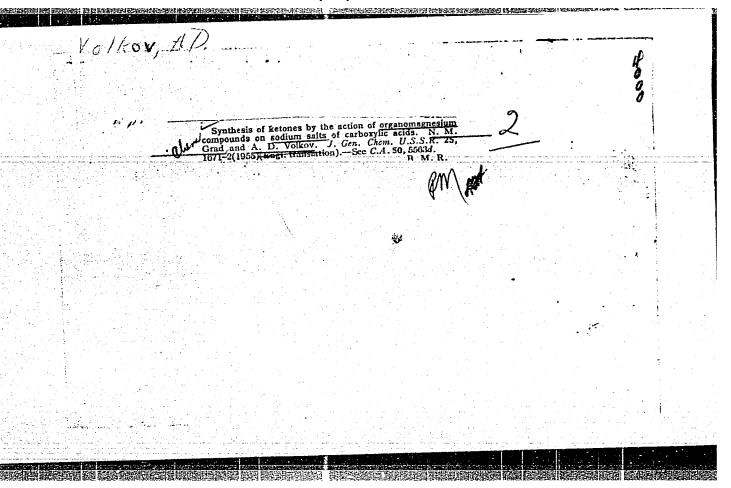
GINSTLING, A.M.; VOLKOV, A.D.

Interaction between calcium sulfate and carbon in the presence of sodium chloride. Zhur.prikl.khim. 33 no.2:274-279

F '60. (Calcium sulfate) (Carbon) (Sodium chloride)

GINSTLING, A.M.; VOLKOV, A.D.

Reaction of calcium sulfate with carbon and silica. Zhur.prikl.khim. 33 no.3:736-739 Mr '60. (MIRA 13:6) (Calcium sulfate) (Carbon) (Silica)



GRAD, N.M.; VOLKOV, A.D.

Synthesis of ketones by the reaction of magnesium organic compounds with sedium salts of carboxylic acids. Zhur.ob.khim. 25 no.9:1716-1718 S \*55. (MIRA 9:2)

1.Leningradskiy tekhnologicheskiy institut imeni V.M.Moleteva. (Ketenes) (Magnesium organic compounds)

SECTION CONTRACTOR OF THE PROPERTY HEREIGNESS SECTION OF THE PROPERTY SECTION

AUTHOR: Volkov, A.D. 121-2-12/20

TITLE: The continuous relieving of multi-start hobbing cutters. (Nepreryvnoya aztylovaniye mnovozakhodnykh chervyachnykh

frez)

PERIODICAL: "Stanki i Instrument" (Machine Tools and Tools), 1957, No.2, pp. 35 - 37 (U.S.S.R.)

ABSTRACT: A set-up is shown by which a relieving lathe can be arranged to perform automatically the division from one start to the next in a multi-start hobbing cutter where such division by hand is a time consuming operation and a source of pitch error. The geometric condition for the method is the disposition of profile points of the same order in all the starts on a common helical line. This condition is fulfilled when the ratio of the number of helical slots to the number of starts is odd. On this basis a table is constructed to select the number of teeth in the hobbing cutter.

There are 2 figures and 2 tables.

AVAIIABLE:

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

IOLKOV, A.D

WOLKOV, A.D.; LYUKSHIN, V.S.

Designing profiles for convolute worm gears. Stan. i instr. 28 no.10: 23-25 0 57. (Gearing, Worm)

VOLKOV, A.D.

VOLKOV, A.D.

Sharpening cutters having wide angles of shear in grooves.

Stan. i instr. 28 no.12:25-26 D '57.

(Cutting tools)

VOLKOV, Anatoliy Dmitriyevich; CRIGOR'YEV, Georgiy Pavlovich; ERODOTSKIY, A.I., red.; MIKHEYEVA, L.N., red.izd-va; KARLOVA, G.L., tekhn. red.

[Physical properties of spent liquors from woodpulp manufacture] Fizicheskie svoistva shchelokov tselluloznogo proizvodstva. Moskva, Goslesbumizdat, 1963. 98 p. (MIRA 17:3)

BARZAKOVSKIY, V. P., doktor khimicheskikh nauk; VOLKOV, A. D., kand. tekhn. nauk

Advances in the area of reactions in crystalline bodies. Zhur. VKHO 8 no.2:128-134 '63. (MIRA 16:4)

(Crystallography) (Chemical reactions)

\$/063/63/008/002/002/015 A057/A126

AUTHORS:

Barzakovskiy, V.P., Doctor of Chemical Sciences, Volkov, A.D., Can-

didate of Technical Sciences

TITLE:

News in the field of the reactions in crystalline substances

PERIODICAL: Zhurnal vsesoyuznogo khimicheskogo obshchestva imeni D.I. Mendele-

yeva, v. 8, no. 2, 1963, 128 - 134

The authors give a review of papers upon the reaction in crystal-TEXT: line substances, read on the Fourth International Symposium on the Reactivity of Solids, Amsterdam, May 30 to June 14, 1960. A short discussion of each problem is given. There is 1 table.

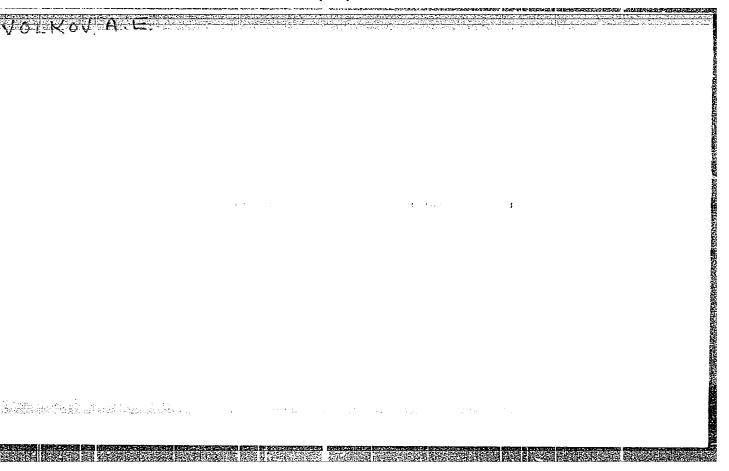
Card 1/1

CIA-RDP86-00513R001860520007-2" APPROVED FOR RELEASE: 08/09/2001

VOIKOV, M.	/ Gas purification from hydrogen sulfide by oxidation on activated carbon. Ya. D. Zei'venskit and A. E. Volkov. Trudy Gosudavit Nouch Issledowted i Prockt Int. Azot Prom. 1952, No. 1, 131-8(Pub. 1953); Referat Zhur., Krim. 1955, Abstr. No. 57399.—The purification of a N-H mixt. obtained by decompg. NH, contg. 0.5-1.0% O <sub>3</sub> , 0.2 mg./cu. m. NH <sub>3</sub> , and certain amt. of H.S is studied. An effective type of activated carbon (AC) is selected. It is established that: increasing the gas velocity does not affect the max. s.mt. of absorbed S in relation to AC; raising the temp. from 20° to 50° does not affect the absorption of the temp. from 20° to 50° does not affect the absorption of the aC, which is most efficient when the gas has relative humidity ~ 100%. Best results are obtained with AC grain midity ~ 100%. The used AC is completely regenerated by size 1-2 mm.; the used AC is completely regenerated by	5-4E4 j	
	size I-2 mm.; the used AC is completely (NH <sub>4</sub> ), S soln.; org. mixts. in the gas (vapors of naphthalene (NH <sub>4</sub> ), S soln.; org. mixts. in the gas (vapors of naphthalene or benzeme) poison the AC; presence of 29% CO <sub>2</sub> in the gas of benzeme) poison the AC; the oxidation does not affect the absorption ability of AC; the oxidation does not affect the absorption abilit		

KAX SADZE, V.M.; CHKHUBIANISHVIII, M.G.; VOLKOV, A.D.

Preparation of sulfur dioxide by the thermal decomposition of natural calcium sulfate. Trudy Inst. prikl. khim.: selektrokhim. AN Gruz. SSR 4:121-129 \*63. (MIRA 17:5)



#### CIA-RDP86-00513R001860520007-2 "APPROVED FOR RELEASE: 08/09/2001

VOLKON A.F

32-8-45/61

AUTHOR

KUZMIN S.V., GOKHSHTEYN, Ya. P.,

VOLKOV A.F., YANCHEVSKIY V.Ya. Oscillographic Polarograph "Geokhi".

TITLE

(Ostsillograficheskiy polyarograf "Geokhi".- Russian) Zavodskaya Laboratoriya 1957, Vol 23, Nr 8, pp 988-992

PERIODICAL

(U.S.S.R.)

ABSTRACT

A new highly sensitive device for carrying outenalyses is concerned here. The experiments of the quantitative determinations of small contents of Bi, Sb, Cd, and Pb at high content of uranium are given as examples. The radiotechnical scheme of the apparatus is given here which shows that to the main part of the apparatus there belongs the generator scheme with two tubes, a pentode with reversed negative binding in the cathode; in the wiring circuit of the second stage there is potentiometer which regulates the amplitude of the saw-tooth-like oscillations which are then recorded by the generator by means of a capacitor. The next tube (3) has an oscillation limiter the treshold of which is regulated by an alternating resistance. The oscillations are received by the next tube (4) which has an electrolytical cell and a cathode repeater, after which they are transmitted to the next tube (8) with the cascade

CARD 1/2

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860520007-2"

32-8-45/61

CARD 2/2

Oscillographic Polarograph "Geokhi".

of the horizontal amplification. A potentiometer here serves as an amplitude regulator. The electrolytical cell is galvanically connected with the cathode repeater which is regulated by the next alternating resistance. Thus either a positive or a negative voltage can be obtained here which is gauged by tube voltameters. For measuring the amplitude of the saw-tooth-like voltage there serves the next tube (6) which works as a voltmeter. The voltage is furthermore transmitted by the resistance (19) of the electrolytic cell to an amplifier with tube (7) in the first cascade. All cascades with the exception of endcascades are fed with the voltage 180 V by the electron stabilizer (tube 16, 17, 18). Tube (19) feeds an electron beam tube (20) which has at the output from the filter the voltage 1800 V. Moreover the apparatus has various additional aggregates which increase its sensitivity. Examples of the application of the apparatus and the exploitation of the results are given gere. There are 5 figures, 2 tables,

ASSOCIATION:

Institute for Geochemistry and Analytic Chemistry of the

Academy of Sciences of the U.S.S.R.

(Institut geokhimii i analiticheskoy khimii Akademii nauk

SSSR)

AVAILABLE:

Library of Congress.

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28(4)

sov/32-25-8-39/44

AUTHORS:

Gokhshteyn, Ya. P., Volkov, A. F., Kuz'min, S. V., Yanchevskiy,

V. A.

TITLE:

A New Model Oscillographic Polarograph

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 8, pp 1008-1012

(USSR)

ABSTRACT:

A new type cathode-ray polarograph was designed which makes possible the detection of low concentrations of elements and organic compounds, the determination of the capacity of the binary electrical layer on dropping and solid electrodes, the impedance of the electrolytic cell, the velocity and the reversibility of the electrode reactions and the study of surface and adsorption phenomena. The instrument operates with an

accuracy of  $\pm$  2% at concentrations of  $10^{-3}$  -  $10^{-5}$  mol/1 and of

± 3% at 10<sup>-6</sup> - 10<sup>-7</sup> mol/1. The scheme of the instrument permits a periodical and a unique development of the various fixed velocities of the potential variations and this way both an Hg-dropping electrode and a stationary Hg-electrode can be used and the sensitivity can be considerably increased. One

Card 1/3

A New Model Oscillographic Polarograph

SOV/32-25-8-39/44

can operate simultaneously with two cells which are reversed by a polarized relay. The polarographic cell receives simultaneously a constant negative tension and a positive sawtoothshaped tension which eliminates the deformation of the curves by the current intensity. The radiotechnical wiring of the instrument was designed based on electron-ray tube type 13L0-36 and consists of the following main units (Fig 1): a generator for the linear-varying tension (the potential variations are determined by means of a magneto-electric loop-oscillograph N-10) with a thyratron cathode TG1-0.1/0.3, a compensator for the load resistance of the cell (with a network 12Zh1L) and a compensator of the capacity current, a synchronizer and a single vibrator (6N8) for the delay of the impulse (synchronized with the dropping period of the Hg), an amplifier for the vertical ray declination (with networks 6Zh4, 12Zh1L) and a current feeder unit. The article gives data on the sensitivity (Table) of the instrument and examples of investigations made with oscillograms obtained at the electrolysis of a 1 n KCl-solution, which contained 5.0 y/ml of Pb2+ and Cd2+, and a 1 n HCl-solution containing 0.5  $\gamma/ml$  of Sb<sup>3+</sup> and Bi<sup>3+</sup> and a 1 n KCl-solu-

Card 2/3

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860520007-2"

A New Model Oscillographic Polarograph

SOV/32-25-8-39/44

tion with 0.1  $\gamma/ml$  of  $Cd^{2+}$ . There are 5 figures, 1 table, and 1 Soviet reference.

ASSOCIATION:

Institut geokhimii i analiticheskoy khimii Akademii nauk SSSR (Institute of Geochemistry and Analytical Chemistry of the Academy of Sciences, USSR)

Card 3/3

Silicon 161.	current	rectifiers.	Biul.tekhekon.info current redtifiers)	orm. no.12:51-5: (MIRA 14:12)	2

VESHENEVSKTY, S.N.; SOLODUKHO, Ya.Yu.; TSALLAGOV, A.P.;
ZAMARAYEV, B.S.; VOLKOV, A.F. (Moskva); NIKULIN, G.F.;
LARKIN, A.P.

Exciter for electrical machines using thyristors. Elektrichestvo no.2:74-77 F '64. (MIRA 17:3)

ARREND MANAGEM CONTROL CONTROL OF THE PROPERTY OF THE PROPERTY

1. Gosudarstvennyy institut po proyektirovaniyu elektrooborudovaniya dlya tyazheloy promyshlennosti (for Veshenevskiy, Solodukho, TSallagov, Zamarayev). 2. Metallurgicheskiy zavod "Serp i molot" (for Nikulin, Larkin).

L 41032-65 EVT (d)/EVT (m)/EVP (w)/T-2 EM ACCESSION HR: APSO08577

\$/0286/65/000/006/0113/1113

AUTHORS: Zuyev, M. A.; Razin, G. M.; Krylov, V. M.; Volkov, A. F.; Timoshin, Ye. P.; Sperikov, V. P.; Gomelov, S. A.; Lenasov, V. B.; Grolyubov, G. P.

TITLE: Test stand for creating impact overloads. Class 62, No. 169407

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 6, 1965, 113

TOPIC TAGS: impact testing

ABSTRACT: This Author Certificate presents a test stand for creating impact overloads. The stand contains a truss with controlling cables, a heisting device, a platform for the investigated object, a cable with a suspension system, a cut-off mechanism, a braking modulation, and a absorbers, and instruments for measuring the platform drop rate. To increase the safety of the experiment and to exclude the effect of the prescribed height on the free fall of the platform, to exclude the effect of the prescribed height on the free fall of the height (500) the stand is provided with a contactless mechanism for setting the height (500) the stand is provided with a contactless mechanism for setting the height (500) in the Enclosure. It to be a mechanism reductor. A setting indicator with a knob and contact, a sliding indicator with a contact, a height indicator state,

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ACCESSION NR: AP5008577

and a stop relay are connected in the magnetic starter circuit of the electric

tackle. Orig. art. has: 1 diagram.

ASSOCIATION: none

SUBMITTED: 02Jan64

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SUB CODE: ME

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OTHER: 000

Card 2/3

EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(1)GG/BB IJP(c) ACCESSION NR: AP5025743 UR/0286/65/000/018/0091/0092 681.142-523.8 Zenkin, V. D.; Trapeznikov, AUTHOR: Vedeshnikov, V. A. Volkov. Turkovskaya, T. A. TITLE: A digital computer with programmed circuit control. Class 42, No. 174844 SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 18, 1965, 91-92 TOPIC TAGS: digital computer, automatic computer programming, self adaptive control ; ABSTRACT: This Author Certificate introduces a digital computer with programmed circuit monitoring. The unit contains a control counter, instruction memory, instruction readout amplifier, instruction register, operation decoder, central control unit, control pulse amplifiers, arithmetic unit, working storage, and an input output device. The installation is designed for automatically and accurately find-! ing elements that fail. The computer contains a microoperation zone decoder and a pilot signal shaper which are connected together and to the readout amplifiers for

the instruction memory. The outputs from the pilot signal shaper are connected to the central control unit, the local control unit, and the control signal amplifier

**Card** 1/3

L 2645-66

ACCESSION NR: AP5025743

unit. The computer also contains a microcontrol unit which is connected to the central control unit and to the control signal amplifiers, and a device for recording the point of failure, which is connected to the instruction memory readout amplifiers. A modification of this computer is designed for transition from macrooperation to microoperation conditions to improve the resolution of diagnostic tests. The microcontrol unit in this computer contains the first gate for interpretation of operating conditions. The inputs to this gate are connected respectively to the unit for sampling commands from the instruction memory and to the flip-flop for storage of operating conditions. The output from this flip-flop is connected to a delay circuit through gates which are connected to the outputs from the microoperation zone decoders which correspond to microoperations for setting the flip-flops of the computer. The delay circuit is connected through a gating assembly to the outputs from the control signal amplifiers. The output from the delay circuit is connected to the input of the instruction sampler. The second gate for interpretation of operating instructions is connected to the input of the delay circuit. The inputs to this gate are connected respectively to the instruction sampler and to the inverse output from the flip-flop for storage of operating conditions through the gate for transition from macrocontrol to microcontrol conditions. The output from the delay circuit is connected in parallel with the output from the first gate for

Card 2/3.

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ACCESSION NR: AP5025743

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interpretation of operating conditions. In a second modification of this computer, the number of points which can be monitored is increased by using an input register in the microoperation zone decoder. This register is connected to the decoder, and the outputs from the decoder are connected to the control points. In a third modification of this computer, indication of a point of failure is simplified by using an cation of this computer indicator with binary-digital code for the number of input register in the failure indicator with binary-digital code for the number of the non-operative element. This register is connected to decimal indicators through a decoder which converts the register code into decimal positional notation. A decoder which converts the register code into decimal positional notation. A cating points of this computer is designed for automatically and accurately low fourth modification of this computer is designed for automatically and accurately low cating points of failure. The pilot signal shaper in this computer contains gates cating points of failure. The pilot signal shaper in this computer contains gates with inputs connected respectively to the microoperation zone decoder and to the with inputs connected respectively to the microoperation zone decoder and to the vital inputs connected to the elements to be monitored.

ASSOCIATION: Institut avtomatiki i telemekhaniki (Institute of Automation and Tele-

mechanics)

SUBMITTED: 127Jun64

NO REF SOV: 000

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860520007-2"

L 65249-65 EWT(1)/T/EWA(b) IJP(c) AT ACCESSION NR: AP5014551

UR/0181/65/007/006/1612/1614

AUTHOR: Volkov, A. F. Will

TITLE: Contribution to the theory of spin absorption by donor electrons in semi-

conductors

SOURCE: Fizika tverdogo tela, v. 7, no. 6, 1965, 1612-1614

TOPIC TAGS: electron donor, spin resonance, hyperfine structure, absorption line

AXILICI: The author uses the model of P. Anderson (J. Fhys. Soc. Japan v. 9, 316, 1954) to calculate the donor concentration at which the hyperfine structure of the absorption line vanishes. The calculation is based on the simple formula  $\omega_{\rm CD}^{\rm S} \approx \omega_0$  ( $\omega_0$  = frequency of hyperfine splitting,  $\omega_{\rm e}$  = frequency of electron exchange among the donors,  $C_{\rm D}$  = donor atom concentration), which is obtained from the inderson model. The results are compared with the experimental values of  $C_{\rm D}$  published by K. A. Muller and J. Schneider (Phys. Rev. Lett. v. 4, 288, 1963). In addition, the author calculates the concentration dependence of the intensities of the absorption peaks, from which he derives the formula

$$s_2 : s_2 : s_3 = 1 : \frac{1}{2} (\frac{N}{C_D}) : \frac{1}{U} (\frac{N}{C_D})^2$$

Card 1/2

= area under peak, N = donor concentration). The results are also compared with experimental data and are found to agree. Orig. art. has: 1 figure, 6 formula, and 2 tables.  SOCIATION: Moskovskiy fiziko-tekhnicheskiy institut (Moscow Physicotechnical Intute)  ENCL: 00 SUB CODE: 88	65249-65 CESSION NR: AP5014551			 }	† •
COCIATION: Moskovskiy fiziko-tekhnicheskiy institut (Moscow Physicotechnical In- Ltute) (Moscow Physicotechnical In- Tute) (Moscow Physicotechnical In- In- In- In- In- In- In- In- In- In-	= area under peak, N = don he experimental data and are	i found to agree	e. Ulae,	 ,	
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SERGEYEV, P.V.; VOLKOV, A.F.

Distribution of I<sup>131</sup>-labeled triiotrast in white rats. Farm. i toks. 27 no.4:468-470 Jl-Ag <sup>164</sup>.

(MIRA 17:11)

l. Kafedra farmakologii (zav. - prof. V.V. Vasil'yeva) II Moskovskogo meditsinskogo instituta imeni Pırogova.

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THE CONTROL OF THE PROPERTY OF

MAN'KOVSKIY, Grigoriy Il'ich; SHEVYAKOV, L.D., akademik, retsenzent; VOLKOV, A.F., otv.red.; VOLOVICH, M.Z., red.izd.; ALADOVA, Ye.I., tekhn.red.; SHKLYAR, S.Ya., tekhn.red.

[Special methods of shaft sinking] Spetsial nye sposoby prokhodki gornykh vyrabotok. Moskva, Ugletekhizdat, 1958. 453 p. (Mining engineering) (MIRA 12:2)

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MALINOV, M.S., inzh. (g.Kolomna); VOIKOV, A.V., inzh. (g.Kolomna)

Boiler-type preheaters for diesel locomotives. Elek.i
tepl.tiaga no.7:12-15 Jl '60. (MIRA 13:8)
(Diesel locomotives--Equipment and supplies)
(Air preheaters)

VOLKOV, A.V., inzh.

Stage resistance butt welding. Stroi.truboprov. 5 no.6:22-23 Je
160. (MIRA 13:7)

(Pipelines-Welding)

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		7	1123-8(1952)(Engl. trans	coumatone and Indene. A kov (Fastern Research Inst. 1-Appl. Chem. U.S.S.R lation).—See C.A. 47, 3716 H. L.	ii. A	
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VOLKOV, A. G.

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VOLKOV, A.C.			
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	Effect of hydrocarbons of the countions in the polarographic wave he indene. A. G. Fordeeva and A. Chen. U.S.S.R. 25, 1265-0(1983)	G. Volkov. J. Appl.	
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VOLVON A toliv Fedorovich; GOLUBKOVA, Ye.S., redaktor; GALAKTIONOVA, Ye.N., tekhnicheskiy redaktor.

[Building prestressed concrete bridges in Czechoslovakia] Opyt stroitel'stva predvaritel'no napriazhennykh zhelezobetonnykh mostov v Chekhoslovakii. Moskva, Nauchno-tekhn.izd-vo avtotransp.lit-ry, (MIRA 10:11) (Czechoslovakia--Bridges, Concrete)

### CIA-RDP86-00513R001860520007-2 "APPROVED FOR RELEASE: 08/09/2001

VOLKOV, A.F. Manufacturing reinforced concrete pipes in outdoor yards during the winter months. Avt.dor. 21 no.9:6 S 58. (Pipe, Concrete) (MIRA 11:11)

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860520007-2"

VOLKOV, Anatoliy Fedorovich; ZUBKOVA, M.S., red.; GALAKTIONOVA, Ye.N., tekhn.red.

> [Black gravel pavements] Pokrytiis iz chernykh graviinykh smesei. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1960. 15 p. (MIRA 14:1) (Pavements, Bituminous)

CIA-RDP86-00513R001860520007-2" APPROVED FOR RELEASE: 08/09/2001

VOLKOV, A.F.

We moved 500,000 m<sup>3</sup> soil using one grader-elevator during the season. Avt.dor. 23 no.1:16-17 Ja '60. (MIRA 13:5) (Road construction) (Earthmoving machinery)

THE PROPERTY OF THE PROPERTY O

YEFREMOV, Ivan Semenovich; VOLKCV, Andrey Fedotovich; ZAGAYNOV, Nikolay Alekseyevich; NIKOL'SKIY, Igor' Konstantinovich; TIKHOMIROV, Sergey Semenovich; CHERVINSKIY, Vladimir Mikhaylovich; TCHIYANOVICH, D.K., red.

[Semiconductor power rectifiers in municipal transport] Poluprovodnikovye silovye preobrazovateli na gorodskom transporte. Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1963. 82 p. (MIRA 17:9)

. 35885-66 EWT(1) IJP(c) AT

ACC NR: AP6024511

SOURCE CODE: UR/0386/66/004/002/0046/0048

AUTHOR: Vladimirov, V. V.; Volkov, A. F.

ORG: Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut)

TITLE: Possibility of exciting cyclotron instability in semiconductors

SOURCE: Zh eksper i teor fiz. Pis'ma v redaktsiyu. Prilozheniye, v. 4, no. 2, 1966, 46-48

TOPIC TAGS: semiconductor plasma, plasma instability, cyclotron resonance, dispersion equation, indium compound, antimonide

ABSTRACT: In view of recent interest in the excitation of microwave oscillations in solid-state plasma, the authors consider the possibility of exciting cyclotron instability in a two-component solid-state plasma by means of a current. The dispersion equation is written out in an approximation wherein the cyclotron instability is excited by resonance with the first harmonic, and the increment of the instability is calculated on this basis. The results are used for a numerical estimate of the excitation of hole cyclotron instability in InSb (electron-hole plasma). It is shown that in this case the required magnetic field is H > 3 x 10<sup>3</sup> Oe, and for an intrinsic semiconductor the electron velocity should exceed the hole velocity by a factor larger than 5. This is realized in an electric field ~150 v/cm. In doped semiconductors, the excitation can be effected in even weaker fields (~30 v/cm for p-InSb). It is not excluded that the microwave radiation observed in InSb by R. D. Larrabee (Bull.

Card 1/2

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R001860520007-2"

(A) SOURCE CODE: UR/0413/66/000/024/0089/0090 ACC NR: AP7002991 INVENTORS: Alitshuli, S. D.; Afinogenov, L. P.; Buyanov, B. B.; Volkov, A. F.: Gil'man, G. I.; Domanitskiy, S. M.; Pavlov, Ye. N.; Rog, G. V.; Trapeznikov, V. A. ORG: none TITLE: Controlling logic machine. Class 42, No. 189629 SOURCE: Izobreteniya, promyshlennyye obraztay, tovarnyye znaki, no. 24, 1966, 89-90 TOPIC TAGS: logic circuit, computer logic ABSTRACT: This Author Certificate presents a controlling logic machine containing input and output devices, a storage device, a control device, a logic device consisting of "NOT", "AND", and "OR" circuits, input logic units, triggers, and delay lines (see Fig. 1). To achieve group processing of information between the elements Fig. 1. 1 - input device; 2 - logic device; 3 - output device; 4 - storage device; 5 - control device z UDC: 681.142 Card 1/2

ACC NR: AP7002991

of the selected group for reduction of the computation program, the outputs of the input logic units are connected to "OR" circuits. The output of the first "OR" circuit is connected through a first gate (also connected to the first output of the control device) to the input of the result storage trigger. The output of the second, "OR" circuit is connected through a second gate (also connected to the second output of the control device) to the input of the result storage trigger, through an inverter and third gate to the input of the result storage trigger, and through a fourth gate and through a delay line and fifth gate to the input of the result storage register. The second inputs of the third, fourth, and fifth gates are connected respectively to the third output of the control device, to the output of the result storage trigger, and to the fourth output of the control device. The second input of the result storage trigger is connected to the fifth output of the control device. The output of the result storage trigger is connected through a sixth gate (whose second input is connected to the sixth output of the control device) to the result storage register and through a seventh gate (whose other input is connected to the controlling input of the input logic unit) to the other input of the input logic unit. Orig. art. has: 1 diagram.

SUB CODE: 09/

SUBM DATE: 11Feb65

Card 2/2

ACC NR: AP6036955

(A, N)

SOURCE CODE: UR/0181/66/008/011/3187/3195

AUTHOR: Volkov, A. F.

ORG: Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut)

TITLE: Waves in semiconductors with a negative differential resistance

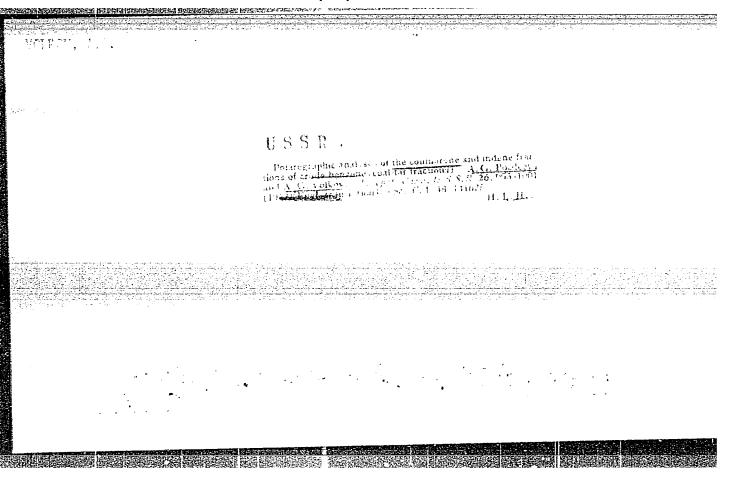
SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3187-3195

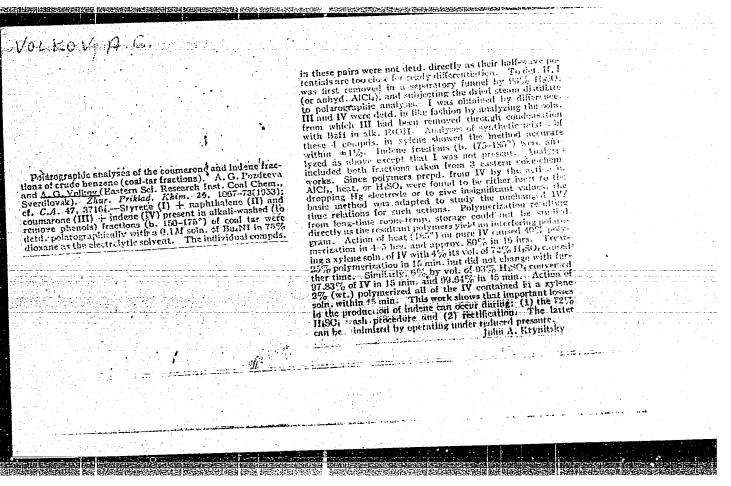
TOPIC TAGS: semiconductor theory, shock wave, standing wave

ABSTRACT: The paper discusses waves which may propagate in semiconductors with a negative differential resistance. The shape and parameters of steady waves of finite amplitude which arise as a result of the development of instability are determined, and it is shown that an isolated travelling wave (domain) is produced in such systems. The shape and velocity of such a wave are calculated by means of a nonlinear treatment. It is also shown that shock waves with an oscillating front can be excited in the media under consideration. The nonlinear analysis of the problem was undertaken by V. L. Bonch-Bruyevich, whom the author thanks for affording him the opportunity to familiarize himself with his work prior to its publication. The author is also sincerely greateful to A. A. Vedenov for supervising the work and to D. A. Frank-Kamenetskiy for discussing the results. Orig. art. has: 5 figures and 13 formulas.

SUB CODE: 20/ SUBM DATE: 25Feb66/ ORIG REF: 005/ OTH REF: 006

Card 1/1





IBIKUS, U.Yu.; VOLKOV, A.G.

Apparatus for determining the initial stage of the spontaneous combustion of coal in a caved-in mine area. Nauch. trudy KNIUI no. 11:152-155 '62. (MIRA 17:7)

VOLKOV, A.G.

Automation of boilers operating on gas obtained during the degasification of a mine. Nauch. trudy KNIUI no. 11:242-253 162. (MIRA 17:7)

IBIKUS, U.Yu.; VOLKOV, A.G.

Investigating the consumption characteristics of throttle control valves. Nauch. trudy KNIUI no.15:316-325 (MIRA 18:8)

VCLKOV, Aleksandr Gavrilovich; IVANOV, A.K., inzh., nauchnyy red.;
HOTENBERG, A.S., red. izd-va; PUL'KINA, Ye.A., tekhn. red.

[Planning organizational and technical measures in construction]Planirovanie organizatsionno-tekhnicheskikh meropriiatii v stroitel'stve. Leningrad, Gosstroiizdat, 1962. 93 p. (MIRA 15:10)

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(Construction industry)

BESPALOV, I.V., inzh.; VOLKOV, A.C., inzh.; PEYSIN, D.M., inzh.; PO-RADNYA, A.I., doktor tekhn. nauk, prof., retsenzent; KHIMUNIN, S.D., kand. tekhn. nauk, naychnyy red.; REYZ, M.B., red. izd-va; PUL'KINA, Ye.A., tekhn. red.

[Quality control of building operations] Kontrol' kachestva stroitel'nykh rabot. Leningrad, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 205 p. (MIRA 14:8) (Construction industry—Quality control)

SAL'NIKOV. V. V. : VOLKOV. A. G.

1. Ural'skiy lesotekhnicheskiy i Vostochnyy uglekhimicheskiy instituty.

(Phenathyl alcohol)

PALEY, A.B., starshiy prepodavatel; VOLKOV, A.I.

New universal automatic device for weft straightening in fabrics. Tekst. prom. 25 no.3:59-60 Mr 165. (MIRA 18:5)

1. Kafedra teoreticheskoy fiziki Ivanovskogo pedagogicheskogo instituta (for Paley). 2. Starshiy inzh. laboratorii elektroprivoda i avtomatiki Spetsial'nogo konstruktorskogo byuro po proyektirovaniyu krasil'no-otdelochnogo oborudovaniya Verkhne-Volzhskogo Soveta narodnogo khozyaystva (for Volkov).

KONSAREV, A.I.; VOLKCV, A.I.; PRONIN, A.T.; PLATONOV, V.S.

er men beginn besøgen bligger prins i ska system i hav bligger. Skar hav skar hav besøgen blig men besøgen besø

Modification of the loading mechanism for an IN-LET restricts. Zav. lab. 31 no.8:1025 '65. ((IRA 1877)

VOLKOV, A.I., dotsent; MARCHENKO, P.A., inzh.

Connection to a plumb bob alignment by means of an isoceles triangle. Izv. vys. ucheb. zav.; gor. zhur. no. 11:93-100 (MIRA 13:12)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M. Kirova. Rekomendovana kafedroy marksheyderskogo dela Tomskogo politekhnicheskogo instituta.

(Mine surveying)

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VOLKOV, A.I., dotsent, kand. tekhn. nauk; MARCHENKO, P.A., inzh.

Graphic method of compiling mine surveying maps in projection on an inclined plane. Nauch. dokl. vys. shkoly; gor. delo no.1:83-85 159. (MIRA 12:5)

1. Predstavlena kafedrami Marksheyderskogo dela i geodezii Tomskogo politekhnicheskgo instituta.

(Mine maps)

ANTONOVA, Lyudmila Aleksandrovna, VOLKOV, Aleksandr Ivanovich, SINITSYN, N.A., red.; KOSAREVA, Ye.N., tekhn.red.

[Practices in introducing amendments to collective farm statutes] Praktika vneseniia izmenenii v ustavy kolkhozov. Moskva, Gos. izd-vo (MIRA 11:9) iurid. lit-ry, 1958. 56 p. (Collective farms)

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VOLKOV, Aleksandr Ivanovich; KRASNOV, N.A., red.

[Rights and duties of the collective farms reproduction intensification; based on the materials of the Plenum of the Central Committee of the CPSU held in February 1964] O pravakh i obiazannostiakh kolkhozov po intensifikatsii proizvodstva; po materialam Plenuma TsK KPSS, sostoiavshegosia v fevrale 1964 goda. Moskva, IUridicheskaia li-(MIRA 17:11) teratura, 1964. 61 p.

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#### CIA-RDP86-00513R001860520007-2 "APPROVED FOR RELEASE: 08/09/2001

VOLKOV, Aleksandr Ivanovich; SHTAN'KO, Nikolay Ivanovich; GOLUBKOVA, V.A., red.; MARAKASOVA, L.P., tekhn. red.

> [Branch of a Siberian cedar] Vetv' sibirskogo kedra. Moskva, Sovetskaia Rossiia, 1962. 359 p.

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VOLKOV, ALEKSANDR IVANOVICH

N/5 722.101 .V91

PRAVOVOYE POLOZHENIYE KOLKHOZNYKH FONDOV (THE LEGAL STATUS OF KOLKHOZ FUNDS) MOSKVA, GOSYURIZDAT, 1955.

61 P. (POPULYARNAYA YURIDICHESKAYA LITERATURA)

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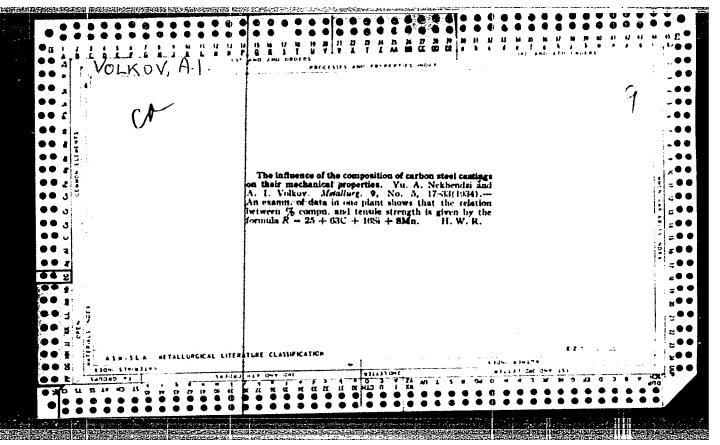
VOLKOV, A. I.

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SO: Knizhnaya Letopis' No. 31, 30 July 1955.

\*For the Degree of Candidate in Technical Sciences.

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VOLKOV, A.I.; PROTASENYA, M.P.

Citrated mare's blood in the control of sterility. Veterinariia (MIRA 18:6)

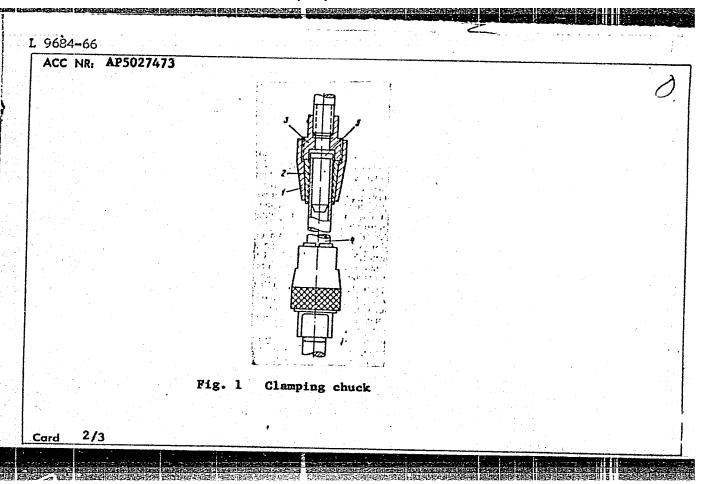
1. Glavnyy veterinarnyy vrach Mogilevskogo proizvodstvennogo upravleniya (for Volkov). 2. Zaveduyushchiy veterinarnoy laboratoriyey Mogilevskogo proizvodstvennogo upravleniya (for Protasenya).

VOLKOV, A.I.

The new TGC and TGS mine theodolites. Inv. TPI 118:46-52 163. (MTRA 18:9)

EWI(m)/EWA(d)/EWP(t)/EWP(z)/EWP(b) IJP(c) ACC NR: AP5027473 SUB CODE: UR/0032/65/031/011/1416/1416 AUTHOR: Kosarev, A. I.; Kuznetsov, A. N.; Pronin, A. T.; Volkov, A. TITLE: Clamping chuck for mechanical tests of thin-walled tubular specimens SOURCE: Zavodskaya laboratoriya, v. 31, no. 11, 1965, 1416 TOPIC TAGS: clamping chuck, metal test, test facility, high temperature strength, ABSTRACT: High-temperature strength tests of thin-walled tubular specimens involve difficulties in attaching the specimens to the test machines. These difficulties could previously be circumvented only by testing extra-long tubular specimens or by welding special mounts onto the specimens. To obviate these difficulties, the authors designed a self-centering chuck (Fig. 1) which makes it possible to test tubular specimens of any length. The chuck consists of housing 1, three cone-shaped bushings 2 with inclination angle of 4.5-5° and threaded inner surface, and connecting sleeve 3 serving to tighten the hold on the specimen and connect the chuck to the testing-machine clamp. To enhance the rigidity of specimen 4, plug 5 is inserted over the butt end of the specimen. Clamping chucks of this design have been used by the authors in the tests of tubular specimens of VTI-1 titanium alloy at the temperature Card 1/3

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of 450°C as well as of thin-walled aluminum-alloy tubes with diameter of 16 mm and less, produced by cold pressing at normal and elevated temperatures. The parts of clamping chucks for the testing of aluminum-alloy tubes may be made of 40Kh or 50 steels, and the bushings -- of tool steels, while the parts of chucks for testing tubes of heat-resistant materials should best be made of EI437B or EI929 chromenickel alloys. For tubes with similar outside diameters the same clamping chuck may be used on merely replacing the bushings. Orig. art. has: 1 figure.

SUB CODE: 11, 13/ SUEM DATE: none/ ORIG REF: 000/ OTH REF: 000

6 °

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PIKHTOVNIKOV, R.V., doktor tekhn. nauk; VOLKOV, A.I.

Explosive forming of sheet metal. Mashinostroitel' no.11:22-25 N \*64 (MIRA 18:2)

VOLKOV, Aleksandr Ivanovich; YEMEL'YANOVA, V.G., red.; TIMOFEYEVA, N.V., tekhn. red.

[The rights and duties of collective farms in regard to the development of their communal economy; based on materials of the plenary session of the Central Committee of the CPSU in January 1961] O pravakh i obiazannostiakh kolkhozov po rasvitiu obshchestvennogo proizvodstva; po materialam ianvarskogo (1961 g.) Plenuma TsK KPSS. Moskva, Gos. izd-vo iurid. lit-ry, 1961. 63 p.

(MIRA 14:9)

(Collective farms)

VOLKOV, A.I., dotsent; MARCHENKO, P.A., assistent

Instruments for making projections on an inclined plane. Izv.vys.ucheb.zav.; gor.zhur. no.7; 31-34 '60. (MIRA 13:7)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M.Kirova. Rekomendovana nauchnym seminarom kafedr geodezii i marksheyderskogo dela. (Mine surveying -- Equipment and supplies)

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VOLKOV, A.I.

Reclaiming the desert soils of the ancient delta of the Syr-Darya. Izv.AN Kazakh.SSR.Ser.bot.i pochv. no.3:3-17 '58. (MIRA 13:5) (Syr-Darya Valley--Agriculture)

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**,我们是我们就是我们就是我们就是我们就是我们的,你们们还是是不是,你们也没有我们的**我们就是我们的,我们就是我们的,我们就是我们的,我们就是我们的人,我们就是我们

RUDKEVICH, M.Ya.; VOLKOV, A.I.

Nature of disjunctive dislocations in Tertiary sediments of the Kazym area in the Ob' Valley. Sov. geol. 2 no.5:149-152 My '59. (MIRA 12:8)

1. Tyumenskoye territorial noye geologicheskoye upravleniye. (Kazym Valley--Geology)

VOLKOV, A.I., kand.tekhn.nauk

Determining the indices for the degree of investigation of a deposit and errors of analogy by the method of second-order differences. Izv.vys.ucheb.zav.; gor.zhur. no.6:9-13 '59. (MIRA 13:4)

1. Tomskiy ordena Trudovogo Krasnogo Znameni politekhnicheskiy institut imeni S.M.Kirova. Rekomendovana kafedroy markshey-derskogo dela i geodezii.

(Ore deposits)